

Table 9.3

Treatability Study Cost Analysis for SWMU B-24 - CSSA
Technology: Off-Site Disposal of Affected Soils

Cost Item	Type of Cost	Description	Unit	No. of Units	Unit Costs	Totals
I	CAPITAL					
		Mobilization/Demobilization				
		a. Mobilization of personnel and equipment ^a	each	1	\$140	\$140
		b. Demobilization of personnel and equipment ^a	each	1	\$140	\$140
		Plan Preparation^b				
		a. Health & safety/work plan	each	1	\$4,000	\$4,000
		b. Closure Plan	each	1	\$7,000	\$7,000
		Total Capital Cost				\$11,280
II	OPERATIONS AND MAINTENANCE					
		Disposal of Affected Soils				
		a) Excavate and load affected soil into dump trucks (assume 95%) for transport to a Class 1 NonHaz landfill	BCY	5700		
		b) Transport and dispose affected soil ^c (assume 95%) at a Class 1 NonHaz landfill	BCY	5415	\$15	\$81,225
		c) Excavate, stabilize, and load affected soil into dump trucks (assume 5%) for transport to a Class 2 Haz landfill	RT Loads	376	\$210	\$78,960
		d) Transport and dispose affected soil ^c (assume 5%) at a Class 2 Haz landfill	BCY	285	\$65	\$18,525
			RT Loads	20	\$210	\$4,200
		Total Operations and Maintenance Cost				\$182,910
III	OTHER TECHNOLOGY-SPECIFIC COSTS					
		Waste Characterization				
		a) TCLP (include Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Ag)	sample	5	\$150	\$750
		Confirmation Sampling in Excavation^d				
		a) Metals (include Ba, Cu, Pb, Zn as recommended)	sample	29	\$150	\$4,275
		Validation				
		a) Data Validation	sample	29	\$100	\$2,850
		Total Technology Cost				\$7,875
		SUBTOTAL				\$202,065
IV	OTHER PROJECT COSTS					
		Engineering^b (for design and management)	10%			\$20,207
		Contingency^b	15%			\$30,310
		Calculated Remediation Cost^b				\$252,580

Costs obtained from Eagle Construction and Environmental Services unless otherwise noted.

a Assume that the excavation equipment includes one dozer and one trackhoe.

b Estimate based on engineering experience

c Assume that 18 LCY can be transported per each RT and the one BCY is equivalent to 1.25 LCY.

d Assume 10 confirmation samples for every 2000 BCY removed from the site (includes one duplicate and one MS/MSD).

Based on guidance of one confirmation sample per 100 feet of sidewall.

BCY bench or in-place cubic yard

LCY Loose Cubic Yard

RT round trip